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Published on SBIR.gov (<https://www.sbir.gov>)

[1. MDA13-T006: Reliability Model and Data Acquisition for Solid Propellant Missiles](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop an innovative high-fidelity, comprehensive framework that estimates reliability and aids in reliability growth for missile systems employing solid propellant motors. DESCRIPTION: The Targets and Countermeasures Directorate of the Missile Defense Agency (MDA) employs refurbished target systems to simulate current threats with improved reliability. Innovative techniques to ...

STTR Department of Defense Missile Defense Agency

[2. MDA13-T007: Lightweight Optical Benches and Mounting Structures](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: The Missile Defense Agency (MDA) is pursuing technology to develop the next generation airborne laser. Part of the design places an emphasis on weight constraints; therefore MDA is placing interest in investigating materials to manufacture lightweight optical benches while maintaining high degrees of stiffness for low vibration and precision alignment. MDA is also interested in explo ...

STTR Department of Defense Missile Defense Agency

[3. MDA13-T008: Phased Array Laser Beam Steering](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: Develop a novel phased array laser beam steering capability for large-aperture high-power combined fiber laser systems. This innovative capability should allow for fine beam steering on the order of micro-radians to nano-radians with potential traceability to larger angle beam steering. DESCRIPTION: Pointing High Energy Lasers (HELs) over great distances requires precision optic ...

STTR Department of Defense Missile Defense Agency

[4. MDA13-T009: Lightweight Optics for Directed Energy Systems](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: The Missile Defense Agency (MDA) is pursuing technology to develop the next generation airborne laser. This system will be weight constrained. Therefore, MDA is interested in investigating novel concepts to create lightweight optics and coatings while maintaining high power densities because the beam control system is projected to comprise a significant portion of the weapon system w ...

STTR Department of Defense Missile Defense Agency

5. [MDA13-T010: Corrosion Protection of High-Value Test & Evaluation Assets](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

OBJECTIVE: This research and development effort is to provide significant enhancement to the corrosion protection of high-value missile defense test & evaluation facilities, equipment and components. DESCRIPTION: Missile defense test programs require the placement and utilization of test assets at remote austere facilities. Research and development in improved methods for extended-life corr ...

STTR Department of Defense Missile Defense Agency

6. [DMEA13B-001: Electrochemical Micro-Capacitors Utilizing Carbon Nanostructures](#)

Release Date: 07-26-2013 Open Date: 08-26-2013 Due Date: 09-25-2013 Close Date: 09-25-2013

TECHNOLOGY AREAS: Materials/Processes, Electronics The technology within this topic is restricted under the International Traffic in Arms Regulation (ITAR), which controls the export and import of defense-related material and services. Offerors must disclose any proposed use of foreign nationals, their country of origin, and what tasks each would accomplish in the statement of work in accordan ...

STTR Department of Defense Defense Microelectronics Activity

7. [13.2-FH1: Development of Innovative Welding for High Performance Bridge Steel](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

Steel bridge fabrication has changed little since the 1950s when welding steel began to dominate over riveting. The recent 20 years has seen two innovations in steel bridge fabrication. One has been the advent of high performance steels (HPS) in the mid-1990s that provided higher yield strengths, higher fracture toughness, and most importantly, an increased weldability over conventiona ...

SBIR Department of Transportation

8. [13.2-FM1: Affiliation Strength/Risk Model Development for Motor Carrier Succession](#)

Release Date: 07-25-2013 Open Date: 07-25-2013 Due Date: 09-23-2013 Close Date: 09-23-2013

The Federal Motor Carrier Safety Administration (FMCSA) is responsible for regulating the safety of interstate truck and bus travel in the United States. The primary mission of FMCSA is to reduce crashes, injuries and fatalities involving large trucks and buses. FMCSA's strategic framework is built upon three core principles: Raise the bar to enter the industry; Require operators to ...

SBIR Department of Transportation

9. [13.2-FH2: Game-based technology and Database to Train Pre-Drivers, Young Drivers, and Older Drivers to Detect Traffic Hazards and Respond Appropriately](#)

Release Date: 07-25-2013Open Date: 07-25-2013Due Date: 09-23-2013Close Date: 09-23-2013

Motor vehicle crashes killed an average of 40,398 people in the U.S. each year from 2000 through 2010, despite declines to 37,423 in 2008, 33,808 in 2009, and 32,885 in 2010 during harsh economic conditions from which the country is slowly recovering (National Highway Traffic Safety Administration, 2012). As a cause of death in the U.S. in 2009, traffic crashes ranked first among both 5-14 an ...

SBIR Department of Transportation

10. [13.2-PH1: Pipeline Integrity Assessment Using In-Line Inspection](#)

Release Date: 07-25-2013Open Date: 07-25-2013Due Date: 09-23-2013Close Date: 09-23-2013

There is a current need better pipeline inspection technology to enable improved inspection of both oil and gas pipelines for internal corrosion, external corrosion, mechanical damage, and longitudinal and transverse cracks. A new and evolving interest across the industry is for an inspection technology that can measure longitudinal strain. This Small Business Innovation Research (SBIR) topi ...

SBIR Department of Transportation

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